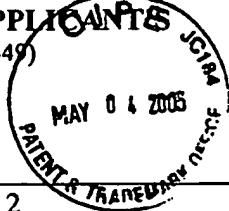


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Form PTO-1449)



Sheet 1

of 2

**Complete if Known**

Application Number	10/520,800
Filing Date:	January 10, 2005
First Named Inventor	GLOURIUS, Frank
Art Unit	Not yet assigned 1626
Examiner Name:	Not yet assigned Jason Nolan

Attorney Docket Number: 100716-60

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup>			
	US -				

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

**NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
JN	AA	A.J. ARDUENGO, III, "Looking for Stable Carbenes: The Difficulty in Starting Anew", Acc. Chem. Res., vol. 32, no. 11, November 1999, pages 913-921.	
JN	AB	A.J. ARDUENGO, III, R. KRAFCZYK and R. SCHMUTZLER, "Imidazolylidenes, Imidazolinylidenes and Imidazolidines", Tetrahedron 55, (1999), pages 14523-14534.	
JN	AC	D.S. CLYNE, J. Jin, E. GENEST, J.C. GALLUCCI, T.V. RAJANBABU, "First Chelated Chiral N-Heterocyclic Bis-Carbene Complexes", Org. Lett., vol. 2, no. 8, (2000), pages 1125-1128.	
	AD	E.N. JACOBSEN, A. PFALTZ and H. YAMAMOTO, "Comprehensive Asymmetric Catalysis I-III", Springer, Berlin, (1999). (This publication is a book. We enclose a copy of the cover page and table of contents.).	
JN	AE	S. KOTHA, K. LAHIRI, and D. KASHINATH, "Recent Applications of the Suzuki-Miyaura Cross-Coupling Reaction in Organic Synthesis", Tetrahedron, vol. 58, (2002), pages 9633-9695.	
JN	AF	A.F. LITTKKE, C. DAI and G. FU, "Versatile Catalysts for the Suzuki Cross-Coupling of Arylboronic Acids with aryl and Vinyl Halides and Triflates under Mild Conditions", J. Am. Chem. Soc., (2000), vol. 122, pages 4020-4028.	
JN	AG	A.F. LOTTKE and G.C. FU, "Palladium-Catalyzed Coupling Reactions of Aryl Chlorides", Agnew. Chem. Int. Ed., (2002), vol. 41, pages 4176-4211.	
JN	AH	N. MIYAURA and A. SUZUKI, "Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds", Chem. Rev. (1995), vol. 95, pages 2457-2483.	

**BEST AVAILABLE COPY**

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT'S (Form PTO-1449)</b>		Complete if Known	
		Application Number	10/520,800
		Filing Date:	January 10, 2005
		First Named Inventor	GLOURIUS, Frank
		Art Unit	1626 <i>Not yet assigned</i>
		Examiner Name:	<i>Not yet assigned</i> Jason Nolan
Sheet 2 of 2		Attorney Docket Number:	100716-60
<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
JN	AJ	J.P. WOLFE, R.A. SINGER, B.H. YANG, and S.L. BUCHWALD, "Highly Active Palladium Catalysts for Suzuki Coupling Reactions", J. A. Chem.. Soc. (1999), vol. 121, pages 9550-9561.	
JN	AJ	J. YIN, M.P. RAINKA, X.X. ZHANG and S.L. BUCHWALD, "A Highly Active Suzuki Catalyst for the Synthesis of Sterically Hindered Biaryls: Novel Ligand Coordination", J. Am. Chem. Soc., vol. 124, no. 7, (2002).	
EXAMINER SIGNATURE: /Jason Nolan/		DATE CONSIDERED: 06/29/2006	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>see Kinds Codes of USPTO Patent Documents at <a href="http://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>for Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.</p> <p>The collection of information is required by 37 CFR 1.197 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p>If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</p>			

**BEST AVAILABLE COPY**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT'S**

(Form PTO-1449)

Sheet 1

of 1

Application Number	To Be Assigned → <b>10/520 800</b>
Filing Date:	Herewith 1/10/2005
First Named Inventor	Frank GLORIUS
Art Unit	To Be Assigned 1626
Examiner Name:	To Be Assigned Jason Nolan

Attorney Docket Number: 100716-60 (KGB)

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup>			
JN	AA	US - 5,663,451	09-02-1997	Herrmann et al	Claim 1
JN	AB	US - 5,182,405	01-06-1993	Arduengo	Claim 1
JN	AC	US - 5,077,414	12-31-1991	Arduengo	Claim 1

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup>				
JN	AD	DE 198 15 275 A	10-07-1999	Aventis Res & Tech GmbH & Co.	Claim 1	

**NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>4</sup>
JN	AE	BOLM, et al, Organometallics, vol. 21, 2002, pages 707-710, XP002261307	
JN	AF	VAN VELDHUIZEN et al, J. Am. Chem. Soc., vol. 124, 2002, pages 4954-4955, XP002261308	
JN	AG	SEIDERS T.J. et al, "Enantioselective Ruthenium-Catalyzed Ring-Closing Metathesis", Organic Letters, ACS, Washington DC, US, vol. 3, no. 20, 2001, pages 3225-3228, XP002220700	
JN	AH	POWELL, J. Am. Chem. Soc., vol. 123, 2001, pages 8878-8879, XP002261309	
JN	AJ	LEE, et al, "Improved Catalysts for the Palladium-Catalyzed Synthesis of Oxindoles by Amide Alpha-Arylation, Rate Acceleration, Use of Aryl Chloride Substrates, and a new Carbene Ligand for Asymmetric Transformations", Journal of Organic Chemistry, American Chemical Society, Washington, D.C., US, vol. 66, May 18, 2001, pages 3402-3414, XP001038253	
JN	AJ	HERRMANN, Agnew. Chem., vol. 114 (2002), pages 1342-1363, CP002261310	
	AK		

EXAMINER SIGNATURE: /Jason Nolan/

DATE CONSIDERED: 06/29/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>see Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>for Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.197 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.